

# Front Fork Cartridge Kit Suzuki RM 85 FGSU13905

**Spare Parts List** 



## FGSU13905

## SAFETY PRECAUTIONS

### **General Warnings**

### Note!

The shock absorber/front fork/steering damper is an important part of the vehicle and will affect the stability.

### Note!

Read and ensure you understand the information in this manual and other technical documents provided by Öhlins, before using the product.

### Note!

Öhlins Racing AB can not be held responsible for any damage to the shock absorber/front fork/steering damper, vehicle, other property or injury to persons, if the instructions for mounting, usage and maintenance are not followed exactly.

### A Warning!

After installing the Öhlins product, take a test ride at low speed to ensure your vehicle has maintained stability.

### A Warning!

If the suspension makes an abnormal noise, or the function is irregular, or if you notice any leakage from the product, stop the vehicle immediately and return the product to an Öhlins Service Centre.

### A Warning!

The product warranty shall only apply if the product has been operated and maintained in accordance with recommendations in this manual. If you have any questions regarding usage, service, inspection and/or maintenance please contact Öhlins.

### Note!

When working with the Öhlins product, always read the Vehicle Service Manual.

### Safety Symbols

In this manual, mounting instructions and other technical documents, important information concerning safety is distinguished by the following symbols:

The Safety Alert Symbol means: Warning! Your safety is involved.

### A Warning!

The Warning Symbol means: Failure to follow warning instructions can result in severe or fatal injury to anyone working with, inspecting or using the shock absorber, or to bystanders.

### Caution!

The Caution Symbol means: Special precautions must be taken to avoid damage to the shock absorber.

### Note!

The Note Symbol indicates information that is important regarding procedures.

### **Product Specific Warnings**

### A Warning!

This product was developed and designed exclusively for a specific vehicle model and shall only be installed on the intended vehicle model in its original condition as delivered from the vehicle manufacturer.

### A Warning!

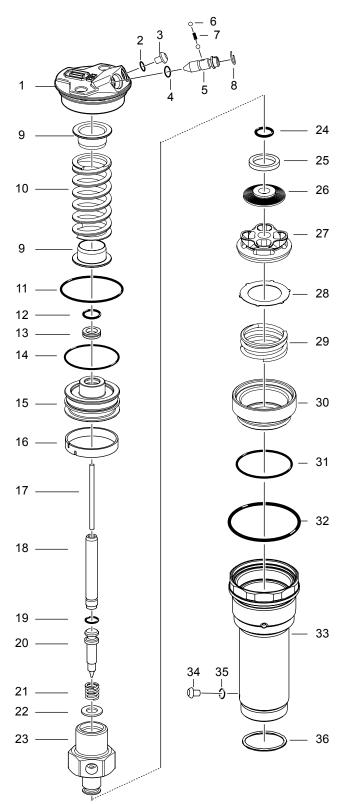
This product contains pressurized nitrogen gas  $(N_2)$ . Do not open, service or modify this product without proper education (authorized Öhlins dealer/distributor) and proper tools.

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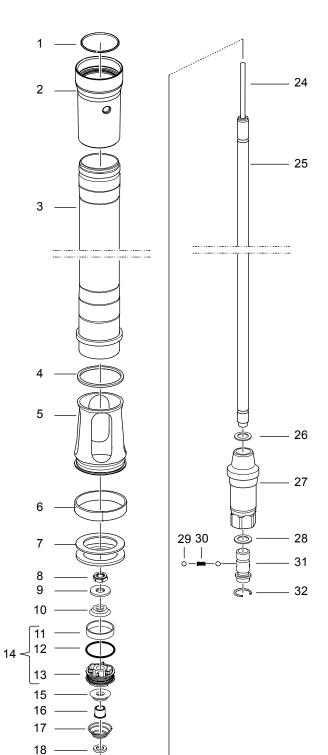
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1-25         01449-xx         1         Clamp washer         See spec.card           1-26         -         -         Shim stack         -           1-27         21044-31         -         Comp. valve         -           1-28         21045-02         1         Check valve shim         -           1-29         21046-30         1         Check valve spring         -           1-30         15473-02         1         Check valve housing         -           1-31         00338-20         1         O-ring         -         -           1-32         00438-96         1         O-ring         -         -           1-33         15472-04         1         Reservoir tube         -         -           1-34         00382-33         1         Screw         -         -         -           1-35         00338-43         1         O-ring         -         -         -         -	1-23	15427-01	1	Rod end	
1-26       -       -       Shim stack         1-27       21044-31       -       Comp. valve         1-28       21045-02       1       Check valve shim         1-29       21046-30       1       Check valve spring         1-30       15473-02       1       Check valve housing         1-31       00338-20       1       O-ring         1-32       00438-96       1       O-ring         1-33       15472-04       1       Reservoir tube         1-34       00382-33       1       Screw         1-35       00338-43       1       O-ring	1-24	00638-13	1	O-ring	
1-27       21044-31       -       Comp. valve         1-28       21045-02       1       Check valve shim         1-29       21046-30       1       Check valve spring         1-30       15473-02       1       Check valve housing         1-31       00338-20       1       O-ring         1-32       00438-96       1       O-ring         1-33       15472-04       1       Reservoir tube         1-34       00382-33       1       Screw         1-35       00338-43       1       O-ring	1-25	01449-xx	1	Clamp washer	See spec.card
1-28       21045-02       1       Check valve shim         1-29       21046-30       1       Check valve spring         1-30       15473-02       1       Check valve housing         1-31       00338-20       1       O-ring         1-32       00438-96       1       O-ring         1-33       15472-04       1       Reservoir tube         1-34       00382-33       1       Screw         1-35       00338-43       1       O-ring	1-26	-	-	Shim stack	
1-29       21046-30       1       Check valve spring         1-30       15473-02       1       Check valve housing         1-31       00338-20       1       O-ring         1-32       00438-96       1       O-ring         1-33       15472-04       1       Reservoir tube         1-34       00382-33       1       Screw         1-35       00338-43       1       O-ring	1-27	21044-31	-	Comp. valve	
1-30       15473-02       1       Check valve housing         1-31       00338-20       1       O-ring         1-32       00438-96       1       O-ring         1-33       15472-04       1       Reservoir tube         1-34       00382-33       1       Screw         1-35       00338-43       1       O-ring	1-28	21045-02	1	Check valve shim	
1-31       00338-20       1       O-ring         1-32       00438-96       1       O-ring         1-33       15472-04       1       Reservoir tube         1-34       00382-33       1       Screw         1-35       00338-43       1       O-ring	1-29	21046-30	1	Check valve spring	
1-32         00438-96         1         O-ring           1-33         15472-04         1         Reservoir tube           1-34         00382-33         1         Screw           1-35         00338-43         1         O-ring	1-30	15473-02	1	Check valve housing	
1-33         15472-04         1         Reservoir tube           1-34         00382-33         1         Screw           1-35         00338-43         1         O-ring	1-31	00338-20	1	O-ring	
1-34         00382-33         1         Screw           1-35         00338-43         1         O-ring	1-32	00438-96	1	O-ring	
1-35 00338-43 1 O-ring	1-33	15472-04	1	Reservoir tube	
	1-34	00382-33	1	Screw	
1-36 00638-86 1 O-ring	1-35	00338-43	1	O-ring	
	1-36	00638-86	1	O-ring	

### Figure 1 - Top Cap Assembly, Gas Piston, compression Valve



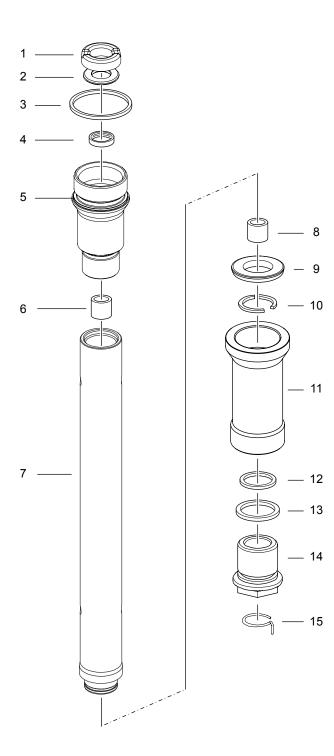
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2-1       00557-07       1       Circlip         2-2       15472-05       1       Reservoir nut         2-3       15491-11       1       Cyl. tube with stop ring         2-4       15413-10       1       Thrust washer         2-5       15429-10       1       Spring pusher         2-6       15481-01       1       Spring bushing         2-7       15494-02       Preload washer       2mm         2-8       15421-01       1       Nut         2-9       01449-xx       1       Clamp washer       See spec. card         2-10       -       -       Shim stack       See spec. card         2-11       15409-02       1       Piston ring       2         2-12       00638-68       1       O-ring         2-13       15406-04       1       Piston         2-14       15406-10       1       Piston assy         2-15       -       -       Shim stack         2-16       15483-02       1       Sleeve         2-17       15497-02       1       Spring         2-18       01449-xx       1       Clamp washer       See spec. card         2-17	Pos	Part No	Pcs	Description	Notes
2-3         15491-11         1         Cyl. tube with stop ring           2-4         15413-10         1         Thrust washer           2-5         15429-10         1         Spring pusher           2-6         15481-01         1         Spring bushing           2-7         15494-02         Preload washer         2mm           2-8         15421-01         1         Nut           2-9         01449-xx         1         Clamp washer         See spec. card           2-10         -         Shim stack         See spec. card         2-11           2-10         -         Shim stack         See spec. card         2-12           2-10         -         Shim stack         See spec. card         2-14           2-11         15409-02         1         Piston ring         2-13         15406-04         1         Piston           2-14         15406-10         1         Piston assy         2-15         -         Shim stack           2-14         15406-10         1         Piston assy         2         2         1         Sta9-02         1         Spring           2-15         -         -         Shim stack         2         2	2-1	00557-07	1	Circlip	
2-4         15413-10         1         Thrust washer           2-5         15429-10         1         Spring pusher           2-6         15481-01         1         Spring bushing           2-7         15494-02         Preload washer         2mm           2-8         15421-01         1         Nut         2-9           2-9         01449-xx         1         Clamp washer         See spec. card           2-10         -         -         Shim stack         See spec. card           2-10         -         -         Shim stack         See spec. card           2-10         -         -         Shim stack         See spec. card           2-11         15406-04         1         Piston ring         2-14           2-14         15406-10         1         Piston assy         2-15           2-15         -         Shim stack         2-16         15483-02           2-16         15483-02         1         Sleeve         2-17           2-17         15497-02         1         Spring         2-18           2-18         01449-xx         1         Clamp washer         See spec. card           2-19         15425-03	2-2	15472-05	1	Reservoir nut	
2-5         15429-10         1         Spring pusher           2-6         15481-01         1         Spring bushing           2-7         15494-02         Preload washer         2mm           2-8         15421-01         1         Nut         2-9           2-9         01449-xx         1         Clamp washer         See spec. card           2-10         -         -         Shim stack         See spec. card           2-10         -         -         Shim stack         See spec. card           2-10         -         -         Shim stack         See spec. card           2-11         15409-02         1         Piston ring         2           2-13         15406-04         1         Piston         2           2-14         15406-10         1         Piston assy         2           2-15         -         -         Shim stack         2           2-16         15483-02         1         Sleeve         2           2-17         15497-02         1         Spring         2           2-18         01449-xx         1         Clamp washer         See spec. card           2-19         15433-01         1 </td <td>2-3</td> <td>15491-11</td> <td>1</td> <td>Cyl. tube with stop ring</td> <td></td>	2-3	15491-11	1	Cyl. tube with stop ring	
2-6         15481-01         1         Spring bushing           2-7         15494-02         Preload washer         2mm           2-8         15421-01         1         Nut           2-9         01449-xx         1         Clamp washer         See spec. card           2-10         -         -         Shim stack         See spec. card           2-11         15406-04         1         Piston         Piston           2-14         15406-10         1         Piston assy         2           2-15         -         Shim stack         2         2           2-16         15483-02         1         Sleeve         2           2-17         15497-02         1         Spring         2           2-18         01449-xx         1         Clamp washer         See spec. card           2-19         15425-03         1         Piston holder         2           2-20         15414-01	2-4	15413-10	1	Thrust washer	
2-7         15494-02         Preload washer         2mm           2-8         15421-01         1         Nut           2-9         01449-xx         1         Clamp washer         See spec. card           2-10         -         -         Shim stack         See spec. card           2-10         -         -         Shim stack         See spec. card           2-11         15409-02         1         Piston ring         2           2-12         00638-68         1         O-ring         2           2-13         15406-04         1         Piston         2           2-14         15406-10         1         Piston assy         2           2-15         -         -         Shim stack         2           2-16         15483-02         1         Sleeve         2           2-17         15497-02         1         Spring         2           2-18         01449-xx         1         Clamp washer         See spec. card           2-19         15425-03         1         Piston holder         2           2-20         15414-01         1         Washer         2           2-21         15433-01         1<	2-5	15429-10	1	Spring pusher	
2-8         15421-01         1         Nut           2-9         01449-xx         1         Clamp washer         See spec. card           2-10         -         -         Shim stack         See spec. card           2-10         -         -         Shim stack         See spec. card           2-11         15409-02         1         Piston ring         2           2-12         00638-68         1         O-ring         2           2-13         15406-04         1         Piston         2           2-14         15406-10         1         Piston assy         2           2-15         -         -         Shim stack         2           2-16         15483-02         1         Sleeve         2           2-17         15497-02         1         Spring         2           2-18         01449-xx         1         Clamp washer         See spec. card           2-19         15425-03         1         Piston holder         2           2-20         15414-01         1         Washer         2           2-21         15433-01         1         Spring         2           2-22         15415-02	2-6	15481-01	1	Spring bushing	
2-9         01449-xx         1         Clamp washer         See spec. card           2-10         -         -         Shim stack         See spec. card           2-10         -         -         Shim stack         See spec. card           2-11         15409-02         1         Piston ring         2           2-12         00638-68         1         O-ring         2           2-13         15406-04         1         Piston         2           2-14         15406-04         1         Piston assy         2           2-15         -         Shim stack         2         2           2-16         15483-02         1         Sleeve         2           2-17         15497-02         1         Spring         2           2-18         01449-xx         1         Clamp washer         See spec. card           2-19         15425-03         1         Piston holder         2           2-20         15414-01         1         Washer         2           2-21         15433-01         1         Spring         2           2-22         15415-02         1         Adj. needle         2         2	2-7	15494-02		Preload washer	2mm
2-10       -       Shim stack       See spec. card         2-11       15409-02       1       Piston ring         2-12       00638-68       1       O-ring         2-13       15406-04       1       Piston         2-14       15406-10       1       Piston assy         2-15       -       -       Shim stack         2-16       15483-02       1       Sleeve         2-17       15497-02       1       Spring         2-18       01449-xx       1       Clamp washer       See spec. card         2-19       15425-03       1       Piston holder         2-20       15414-01       1       Washer         2-21       15433-01       1       Spring         2-22       15414-01       1       Washer         2-21       15433-01       1       Spring         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27	2-8	15421-01	1	Nut	
2-11       15409-02       1       Piston ring         2-12       00638-68       1       O-ring         2-13       15406-04       1       Piston         2-14       15406-10       1       Piston assy         2-15       -       -       Shim stack         2-16       15483-02       1       Sleeve         2-17       15497-02       1       Spring         2-18       01449-xx       1       Clamp washer       See spec. card         2-19       15425-03       1       Piston holder         2-20       15414-01       1       Washer         2-21       15433-01       1       Spring         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30 <t< td=""><td>2-9</td><td>01449-xx</td><td>1</td><td>Clamp washer</td><td>See spec. card</td></t<>	2-9	01449-xx	1	Clamp washer	See spec. card
2-12         00638-68         1         O-ring           2-13         15406-04         1         Piston           2-14         15406-10         1         Piston assy           2-15         -         -         Shim stack           2-16         15483-02         1         Sleeve           2-17         15497-02         1         Sleeve           2-18         01449-xx         1         Clamp washer         See spec. card           2-19         15425-03         1         Piston holder         2-20           15414-01         1         Washer         2         2           2-20         15414-01         1         Washer         2           2-21         15433-01         1         Spring           2-22         15414-01         1         Washer           2-21         15433-01         1         Spring           2-22         15415-02         1         Adj. needle           2-23         00338-56         1         O-ring           2-24         15412-05         1         Adj. shaft           2-25         15454-03         1         Shaft           2-26         00338-39	2-10	-	-	Shim stack	See spec. card
2-13       15406-04       1       Piston         2-14       15406-10       1       Piston assy         2-15       -       -       Shim stack         2-16       15483-02       1       Sleeve         2-17       15497-02       1       Spring         2-18       01449-xx       1       Clamp washer       See spec. card         2-19       15425-03       1       Piston holder         2-20       15414-01       1       Washer         2-21       15433-01       1       Spring         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-11	15409-02	1	Piston ring	
2-14       15406-10       1       Piston assy         2-15       -       -       Shim stack         2-16       15483-02       1       Sleeve         2-17       15497-02       1       Spring         2-18       01449-xx       1       Clamp washer       See spec. card         2-19       15425-03       1       Piston holder         2-20       15414-01       1       Washer         2-21       15433-01       1       Spring         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-12	00638-68	1	O-ring	
2-15       -       -       Shim stack         2-16       15483-02       1       Sleeve         2-17       15497-02       1       Spring         2-18       01449-xx       1       Clamp washer       See spec. card         2-19       15425-03       1       Piston holder         2-20       15414-01       1       Washer         2-21       15433-01       1       Spring         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-13	15406-04	1	Piston	
2-16       15483-02       1       Sleeve         2-17       15497-02       1       Spring         2-18       01449-xx       1       Clamp washer       See spec. card         2-19       15425-03       1       Piston holder         2-20       15414-01       1       Washer         2-21       15433-01       1       Spring         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-14	15406-10	1	Piston assy	
2-17       15497-02       1       Spring         2-18       01449-xx       1       Clamp washer       See spec. card         2-19       15425-03       1       Piston holder         2-20       15414-01       1       Washer         2-21       15414-01       1       Washer         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-15	-	-	Shim stack	
2-18         01449-xx         1         Clamp washer         See spec. card           2-19         15425-03         1         Piston holder         2           2-20         15414-01         1         Washer         2           2-21         15414-01         1         Washer         2           2-21         15413-01         1         Spring         2           2-22         15415-02         1         Adj. needle         2           2-23         00338-56         1         O-ring         2           2-24         15412-05         1         Adj. shaft         2           2-25         15454-03         1         Shaft         2           2-26         00338-39         1         O-ring         2           2-27         15431-01         1         End piece         2           2-28         00338-79         1         O-ring         2           2-29         00884-02         2         Ball         2           2-30         01474-01         1         Spring         2           2-31         15423-01         1         Adj. screw         3	2-16	15483-02	1	Sleeve	
2-19       15425-03       1       Piston holder         2-20       15414-01       1       Washer         2-21       15433-01       1       Spring         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-17	15497-02	1	Spring	
2-20       15414-01       1       Washer         2-21       15433-01       1       Spring         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-18	01449-xx	1	Clamp washer	See spec. card
2-21       15433-01       1       Spring         2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-19	15425-03	1	Piston holder	
2-22       15415-02       1       Adj. needle         2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-20	15414-01	1	Washer	
2-23       00338-56       1       O-ring         2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-21	15433-01	1	Spring	
2-24       15412-05       1       Adj. shaft         2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-22	15415-02	1	Adj. needle	
2-25       15454-03       1       Shaft         2-26       00338-39       1       O-ring         2-27       15431-01       1       End piece         2-28       00338-79       1       O-ring         2-29       00884-02       2       Ball         2-30       01474-01       1       Spring         2-31       15423-01       1       Adj. screw	2-23	00338-56	1	O-ring	
2-26         00338-39         1         O-ring           2-27         15431-01         1         End piece           2-28         00338-79         1         O-ring           2-29         00884-02         2         Ball           2-30         01474-01         1         Spring           2-31         15423-01         1         Adj. screw	2-24	15412-05	1	Adj. shaft	
2-27         15431-01         1         End piece           2-28         00338-79         1         O-ring           2-29         00884-02         2         Ball           2-30         01474-01         1         Spring           2-31         15423-01         1         Adj. screw	2-25	15454-03	1	Shaft	
2-28         00338-79         1         O-ring           2-29         00884-02         2         Ball           2-30         01474-01         1         Spring           2-31         15423-01         1         Adj. screw	2-26	00338-39	1	O-ring	
2-29         00884-02         2         Ball           2-30         01474-01         1         Spring           2-31         15423-01         1         Adj. screw	2-27	15431-01	1	End piece	
2-30         01474-01         1         Spring           2-31         15423-01         1         Adj. screw	2-28	00338-79	1	O-ring	
2-31 15423-01 1 Adj. screw	2-29	00884-02	2	Ball	
· · · · · · · · · · · · · · · · · · ·	2-30	01474-01	1	Spring	
2-32 01473-06 1 Circlip	2-31	15423-01	1	Adj. screw	
	2-32	01473-06	1	Circlip	

### Figure 2 - Outer Tube, Spring Guide, Rebound valve and Shaft

FGSU13905





Pos	Part No	Pcs	Description	Notes
3-1	15479-01	1	Top out rubber	
3-2	15480-01	1	Washer	
3-3	00438-12	1	O-ring	
3-4	15428-01	1	L-cup seal	
3-5	15474-01	1	Bottom cap	
3-6	01056-09	1	Bushing	
3-7	15475-01	1	Hydr.stop tube	
3-8	01056-09	1	Bushing	
3-9	15441-10	1	Hydr.stop piston	
3-10	00131-05	1	Circlip	
3-11	15456-10	1	Hydr.stop cyl.	
3-12	00338-10	1	O-ring	
3-13	00438-12	1	O-ring	
3-14	15430-10	1	Base plug	
3-15	15440-01	1	Circlip	

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